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#269 P. 002/007

PATENT COOPERATION TREATY

PCT/JP2005/008074

From the INTERNATIONAL BUREAU

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

TOYOSU, Yasus 1-5-9 Kanazawa,	Tokushima
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Date of mailing (day/month/year) 23 November 2006 (23.11.2006)	
Applicant's or agent's file reference 8684PC	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/008074	International filing date (day/month/year) 27 April 2005 (27.04.2005)
Applicant BIO	SCIENCE CO., LTD. et al

l.	Transmittal	of the	translation	to	the	applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report or
patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request;

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

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ATTACHMENT I

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 8684PC	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2005/008074	International filing date (day/montle/year) 27 April 2005 (27.04,2005)	Priority date (day/month/year) 30 April 2004 (30.04.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant BIO SCIENCE CO., LTD.			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).		
2.	This REPORT consists of a total	of 5 sheets, including this cover sheet.	
	In the attached sheets, any refere to the international preliminary i	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.	
3.	This report contains indications	relating to the following items:	
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority	

	Date of issuance of this report 14 November 2006 (14.11.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Masashi Honda
Facsimile No. +41 22 338 82 70	e-mail: pt08@wipo.int

2006/12/28 17:42 #269 P. 004/007

PATENT COOPERATION TREAT!	PATENT COOP	ERATION	TREATY
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TRANSLATION INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 8684PC See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/008074 27.04.2005 30.04.2004 International Patent Classification (IPC) or both national classification and IPC Applicant BIO SCIENCE CO., LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Telephone No.

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/008074

Γ		
Box		
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it we filed, unless otherwise indicated under this item.	S
	This opinion has been established on the basis of a translation from the original language into the following language	
	, which is the language of a translation furnished for the purposes of international search (under	Γ.
	Rule 12.3 and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claime invention, this opinion has been established on the basis of:	d
	a. type of material	
	a sequence listing	
	table(s) related to the sequence listing	
	b. format of material	
	in written format	
	in computer readable form	
	c. time of filing/furnishing	
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled of furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application is filled or does not go beyond the application as filled, as appropriate, were furnished.	IT IS
4.	Additional comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/008074

Bo	No. V	Reasoned statement citations and expla	nt under R mations su	ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement				
	Novelty	(N)	Claims	1-16	YES
			Claims		NO
	Inventive	e step (IS)	Claims	2	YES
			Claims	1-16	NO
	Industria	l applicability (IA)	Claims	1-16	YES
			Claims		NO

2. Citations and explanations:

Document 1: WO 94/06307 A1 (Nippon Soda Co., Ltd.) 03 March 1994, Full text,

(Family: none)

Document 2: JP 7-289172 A (Ajinomoto Co., Inc.) 07 November 1995, Full text, & US

5676966 A1 & EP 678246 A1 & NO 951473 A & CN 1125057 A & CA

2147432 A

Document 3: JP 57-47466 A (Asahi Denka Kogyo Kabushiki Kaisha) 18 March 1982, page

1, lines 14 to 18, lower right column (Family: none)

Claims 1, 3, 5, 6, 8, and 12

The inventions described in claims 1, 3, 5, 6, 8, and 12 do not appear to involve an inventive step based on documents 1 through 3.

Documents 1 describes a feed additive composition for ruminants wherein a biologically active substance that is a coating composition containing a protective agent comprising a hardened animal fat or oil, hardened vegetable oil, stearic acid, and so on, and a preservative.

Document 2 describes the addition of lecithin to a coating composition comprising a hardened animal fat or oil, hardened vegetable oil, and so on.

In addition, propionic acid and the like are well known as food preservatives as described in document 3.

Thus, the addition of lecithin to a coating composition in a feed additive composition for ruminants and the use of propionic acid, well known as a preservative, could be easily conceived of by a person skilled in the art.

Claim 2

Document 1 is a document indicting the general technical state in the relevant technical field, and none of the documents cited in the ISR describe or suggest raising the lumen bypass rate of biologically active substance by setting the propionic acid or other antibiotic content at 0.01 to 2.0wt%.

Claim 4

The invention described in claim 4 does not appear to involve an inventive step based on documents 1 through 3.

Document 2 describes the use of lysine hydrochloride as a biologically active substance.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/008074

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: V = 2

Claims 7 and 9

The inventions described in claims 7 and 9 do not appear to involve an inventive step based on documents 1 through 3.

In terms of mean particle size and content of biologically active substances, this is a matter of providing appropriate settings such that breakdown is made difficult when coated by a coating composition.

Claims 10 and 11

The inventions described in claims 10 and 11 do not appear to involve an inventive step based on documents 1 through 3.

Document 1 describes granulation by mixing a biologically active substance and a coating composition to make a melt solution, then atomizing this melt solution in a vacuum.

In addition, document 1 describes providing a spherical shape for a feed additive composition for ruminants.

Claims 13 and 14

The inventions described in claims 13 and 14 do not appear to involve an inventive step based on documents 1 and 2.

Bringing together the temperature of a melt solution of a biologically active substance and a coating composition and the melting temperature of the protective agent used is a matter of providing appropriate settings.

Claim 15

The invention described in claim 15 does not appear to involve an inventive step based on documents 1 and 2.

The use of well-known compositions such as taurine and betain as biologically active substances in the inventions described in document 1 is not found to be exceptionally creative.

Claim 16

The invention described in claim 16 does not appear to involve an inventive step based on documents 1 through 3.

The use of a well-known preservative such as propionic acid described in document 3 as a protective agent added to a coating composition in a feed additive composition for ruminants described in document 1 could be easily conceived of by a person skilled in the art.